

Claims

What is claimed is:

- 1 1. A system for providing two-way communication of content between a wireless mobile
2 communication device and a remote computer network, comprising:
 - 3 a wireless two-way messaging network further comprising:
 - 4 said wireless communication device;
 - 5 a basestation in communication with said wireless communication device;
 - 6 a gateway server in communication with said basestation; and
 - 7 a network and layer framework for translating said communicated content
between said wireless communication device and said basestation; and
8 an intermediary computer system in communication with said wireless two-way
9 messaging network and said remote computer network.
 - 10 2. The system of claim 1, wherein said network and layer framework comprises:
 - 11 a system layer;
 - 12 an operating system framework layer;
 - 13 a user interface; and
 - 14 a Message Transport Protocol stack.
 - 15 3. The system of claim 2, wherein said user interface comprises a computer network
16 browser.
 - 17 4. The system of claim 2, wherein said network and layer framework interface further
18 comprises a data encryption module.

1 **5.** The system of claim 1, wherein said intermediary computer system further comprises:
2 a first electronic queue of data communicated from said wireless two-way messaging
3 network to said intermediary computer system;
4 a plurality of data modules in communication with said first electronic queue;
5 an event handler in communication with said plurality of data modules;
6 an application dispatcher in communication with said plurality of data modules and said
7 event handler;
8 a second electronic queue of data communicated from said intermediary computer system
9 to said wireless two-way messaging network; and

10 a content fetcher in communication with said application dispatcher and said remote
11 computer network.

12 **6.** The system of claim 5, wherein said second queue further comprises means for Message
13 Transport Protocol encoding.

14 **7.** The system of claim 5, wherein said plurality of data modules comprises at least one of:
15 a message validator;
16 a session module;
17 a wireless IP/IP mapper database;
18 a data transformer;
19 an encryption module; and
20 a cache manager.

1 8. A method for providing two-way communication of content between a wireless mobile
2 communication device and a remote computer network via an intermediary computer system,
3 comprising the steps of:

4 originating a request for data at said wireless mobile communication device and
5 transmitting said data request through a network and layer framework to a two-way wireless
6 messaging network;

7 transmitting said request for data from said two-way wireless messaging network via a
8 first electronic queue to said intermediary computer system in communication with said remote
9 computer network;

10 retrieving the requested data from said remote computer network;

11 placing said retrieved data in a second queue;

12 transmitting said retrieved data from said second queue to said wireless communication
13 device via said two-way wireless messaging network; and

14 displaying said retrieved data at said wireless communication device.

15 9. The method of claim 8, wherein said request for data is a Uniform Resource Locator.

16 10. The method of claim 8, wherein said wireless communication device includes a stored
17 Wireless IP, and further wherein the step of transmitting said data request through a network and
18 layer framework to a two-way wireless messaging network comprises the steps of:

19 encoding said data request into Message Transport Protocol;

20 sending said Message Transport Protocol-encoded data request to one of a short
21 messaging system stack and an email stack; and

22 transmitting said Message Transport Protocol-encoded data request and said Wireless IP
23 to said intermediary computer system.

1 **11.** The method of claim 10, further comprising the steps of:

2 placing a copy of said Message Transport Protocol-encoded data request in said wireless
3 communication device;

4 waiting a fixed duration for one of positive receipt confirmation and negative receipt
5 confirmation from said intermediary computer system;

6 retrieving said copy of said Message Transport Protocol-encoded data request from said
7 wireless communication device in response to said negative receipt confirmation;

8 transmitting said retrieved copy of said Message Transport Protocol-encoded data request
9 and said Wireless IP to said intermediary computer system; and

10 removing said copy of said Message Transport Protocol-encoded data request from said
11 wireless communication device in response to said positive receipt confirmation from said
12 intermediary computer system.

13 **12.** The method of claim 8, wherein the step of retrieving the requested data from said remote
14 computer network further comprises the steps of:

15 retrieving said request for data in said first electronic queue;

16 validating said retrieved request for data for Message Transport Protocol coding and
17 transmission completeness;

18 analyzing said retrieved request for data to identify type of data requested;

19 locating a data module suitable for retrieval of said requested data; and

20 passing said data module to a content fetcher.

21 **13.** The method of claim 12, further including the steps of:

22 transforming said retrieved data to an intermediary markup language; and

23 transforming said retrieved data to a target markup language.

1 **14.** The method of claim **12**, wherein said intermediary markup language is Extensible
2 Markup Language.

1 **15.** The method of claim **8**, wherein said second electronic queue divides said retrieved data
2 into a plurality of data packets.

1 **16.** The method of claim **15**, further including the step of Message Transport Protocol-
2 encoding each of said plurality of data packets.

1 **17.** The method of claim **16**, wherein each of said plurality of data packets has a maximum
2 length of 448 characters.

1 **18.** The method of claim **17**, wherein said step of transmitting said retrieved data from said
2 second electronic queue to said wireless communication device via said two-way wireless
3 messaging network is conducted using one of Short Messaging Service protocol, Simple Mail
4 Transfer Protocol, and Simple Network Paging Protocol.

1 **19.** The method of claim **17**, further including the step of retrieving a Wireless IP and Session
2 ID for said retrieved data.

1 **20.** The method of claim **8**, further including the steps of:
2 encrypting one of said data request and said retrieved data prior to transmission; and
3 decrypting said one of said data request and said retrieved data subsequent to
4 transmission.